

IN THE UNITED STATES PATENT AND TRADEMARKOFFICE

SEQUENCE LISTING

110: Applicant Stuart A. Newman, et al.

120: Title of Invention SPLICE CHOICE ANTAGONISTS AS

THERAPEUTIC AGENTS

130: File Reference 51230 00601

140: Serial No. 09/849,967

141: Filed 2001-05-08

160: Number of SEQ ID NOs 4

210: SEQ ID NO 1

211: Length 1689

212: Type DNA

213: Organism Chicken

400: Sequence SEQ ID NO:1 Full length cDNA for chicken

hnRNP A1

1	gcgtctccac	ccctcagcgg	gcggcggtga	gtgcgccagg	ccagcgccgg	cgtgggaccg
61	agcgggcgtg	aaggcgcgag	ctgaacgctg	gcacggtttc	ctagatctaa	aagaaaggcc
121	gagttagagt	acccttccaa	AATGGCTGCT	ATTAAGGAAG	AGAGAGAGGT	GGAAGATTAC
181	AAGAGAAAAA	GGAAGACGAT	CAGCACAGGC	CATGAGCCTA	AGGAGCCAGA	GCAGTTGAGA
241	AAGCTGTTCA	TTGGAGGTCT	GAGCTTCGAG	ACGACGGATG	ATAGCTTGAG	AGAGCACTTT
301	GAAAAATGGG	GCACACTCAC	GGACTGTGTG	GTGATGAGAG	ACCCACAAAC	AAAACGTTCC
361	AGAGGCTTTG	GCTTTGTTAC	TTACTCTTGC	GTGGAAGAGG	TGGATGCGGC	CATGAGCGCT
421	CGACCACATA	AGGTGGATGG	ACGTGTGGTT	GAACCAAAGA	GAGCAGTTTC	AAGGGAGGAT
481	TCTGTAAAGC	CTGGGGCGCA	TCTCACAGTA	AAGAAAATAT	TTGTTGGTGG	CATTAAAGAA
541	GATACAGAAG	AATATAATTT	AAGGGGGTAC	TTTGAAACAT	ATGGCAAGAT	CGAAACGATA
601	GAAGTCATGG	AAGACAGACA	AAGTGGAAAG	AAAAGAGGCT	TCGCTTTTGT	AACTTTTGAT
661	GATCACGATA	CAGTTGATAA	AATTGTTGTT	CAGAAATACC	ATACTATAAA	TGGTCATAAC
721	TGCGAAGATA	AAAAAGCACT	CTCAAAACAA	GAGATGCAGA	CTGCCAGCTC	TCAGAGAGGT
781	CGTGGGGGTG	GTTCAGGCAA	CTTCATGGGT	CGTGGAAATT	TTGGAGGTGG	TGGAGGAAAC
841	TTTGGCCGAG	GAGGAAACTT	TGGTGGAAGA	GGAGGCTATG	GGGGTGGTGG	TGGCGGTGGT
901	GGGAGCAGAG	GAAGCTTTGG	GGGTGGTGAT	GGATACAACG	GATTTGGTGA	TGGTGGCAAC
961	TATGGAGGTG	GTCCTGGCTA	TGGCAGCAGA	GGGGGTTATG	GTGGTGGTGG	AGGACCAGGA
1021	TATGGAAACC	CAGGTGGTGG	ATATGGAGGT	GGAGGAGGAG	GATATGGTGG	CTACAATGAA
1081	GGAGGCAATT	TTGGAGGTGG	TAATTATGGA	GGCAGTGGAA	ACTACAATGA	CTTTGGTAAC
1141	TACAGTGGAC	AGCAGCAGTC	CAATTACGGT	CCCATGAAAG	GTGGTGGCAG	TTTTGGTGGT
1201	AGAAGTTCAG	GCAGTCCCTA	TGGTGGTGGT	TATGGATCTG	GAAGTGGAAG	TGGGGGCTAT

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160: Number of SEQ ID NOs 4

210: SEQ ID NO 2

211: Length 378

212: Type PRT

213: Organism Chicken

400: Sequence SEQ ID NO:2 Amino acid sequence of chicken

hnRNP A1



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160: Number of SEQ ID NOs 4

210: SEQ ID NO 3

211: Length 314

212: Type PRT

213: Organism Human

400: Sequence SEQ ID NO:3 Amino acid sequence of human

hnRNP A1

PKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNARPH KVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGF AFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRG GNFSGRGGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNNQSSNFGPMKGGNFGGRSSGPYG GGGQYFAKPRNQGGYGGSSSSSSYGSGRRF

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160: Number of SEQ ID NOs 4

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210: SEQ ID NO 4

211: Length 1136

212: Type DNA

213: Organism Chicken

400: Sequence SEQ ID NO:4 Open reading frame of cDNA for

chicken hnRNP A1

AATGGCTGCT ATTAAGGAAG AGAGAGAGGT GGAAGATTAC AAGAGAAAAA GGAAGACGAT CAGCACAGGC CATGAGCCTA AGGAGCCAGA GCAGTTGAGA AAGCTGTTCA TTGGAGGTCT GAGCTTCGAG ACGACGGATG ATAGCTTGAG AGAGCACTTT GAAAAATGGG GCACACTCAC GGACTGTGTG GTGATGAGAG ACCCACAAAC AAAACGTTCC AGAGGCTTTG GCTTTGTTAC TTACTCTTGC GTGGAAGAGG TGGATGCGGC CATGAGCGCT CGACCACATA AGGTGGATGG ACGTGTGGTT GAACCAAAGA GAGCAGTTTC AAGGGAGGAT TCTGTAAAGC CTGGGGCGCA TCTCACAGTA AAGAAAATAT TTGTTGGTGG CATTAAAGAA GATACAGAAG AATATAATTT AAGGGGGTAC TTTGAAACAT ATGGCAAGAT CGAAACGATA GAAGTCATGG AAGACAGACA AAGTGGAAAG AAAAGAGGCT TCGCTTTTGT AACTTTTGAT GATCACGATA CAGTTGATAA AATTGTTGTT CAGAAATACC ATACTATAAA TGGTCATAAC TGCGAAGATA AAAAAGCACT CTCAAAACAA GAGATGCAGA CTGCCAGCTC TCAGAGAGGT CGTGGGGGTG GTTCAGGCAA CTTCATGGGT CGTGGAAATT TTGGAGGTGG TGGAGGAAAC TTTGGCCGAG GAGGAAACTT TGGTGGAAGA GGAGGCTATG GGGGTGGTGG TGGCGGTGGT GGGAGCAGAG GAAGCTTTGG GGGTGGTGAT GGATACAACG GATTTGGTGA TGGTGGCAAC TATGGAGGTG GTCCTGGCTA TGGCAGCAGA GGGGGTTATG GTGGTGGTGG AGGACCAGGA TATGGAAACC CAGGTGGTGG ATATGGAGGT GGAGGAGGA GATATGGTGG CTACAATGAA GGAGGCAATT TTGGAGGTGG TAATTATGGA GGCAGTGGAA ACTACAATGA CTTTGGTAAC TACAGTGGAC AGCAGCAGTC CAATTACGGT CCCATGAAAG GTGGTGGCAG TTTTGGTGGT AGAAGTTCAG GCAGTCCCTA TGGTGGTGGT TATGGATCTG GAAGTGGAAG TGGGGGCTAT GGTGGTAGAA GATTCT